SEQUENCE LISTING

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actagtgaac atagtttata acattgtcca aggggtggag ggggatgcgc gaaatcgatg     180

tgcacgtttg gtcaaagatg ctcgcgaaag ctgcacatca atttcgcaca tgggcgaaat     240

tgacttgcag gtgggtataa aagttgatgt aggccatgtg gctcgatttc aaccatatgg     300

gtatgcttct gaggatgggg tgttacagtg gaccatatga ggtaggtcat ttggagatgt     360

caccaaaatg gtctaaatct gcgcattcca tttaagtgaa tttaagtgaa atttaagtga     420

attttactta aaattgacct ttttcgttgc gcagatttgg ggtggtgatg ggtgacgcgg     480

cgaatttttt aaaaaagagg tatatcgcgt gctatttgta tttttggtat caccgcgtca     540

ccaatcacca ttgacggttt cttttttcgaa gtttttccgg attattgcat tttttatata     600

attgtgggtg gctgattctt gcgaaaggac tgttgtgatg tccgagttcc caaattggga     660

gtttttggac atcactcctg atctgccggc ggcgatcagg atgactgaca tttcgatata     720

ttttgggtat tcgatagctg ccaaatcggt cagcgtcgag tattccggtt tattcgaagg     780

attcatgata ttgcaaaata tcattgattt tcatggggtt ttgtattagt acccgctcat     840

tgtgggaaag tcgggtggat ttatcttacc cgcaaatcta atacaagatt tgcatgatgc     900

agcaatagac caaggttagt atagcagttg tatttatacg actagttatg caaacccttt     960

gtgtttttg ttgcgactct tggcgtgaac cggaagaccg gacctcgctt tcgactattc    1020

atctttgatg gatatgagat cgcaagggta tcgcttcgtg cgatatttag tgaccatcag    1080

agcacgctac gacttttgat tatatccttg gatttaatcg gaagctcgca agcattgcat    1140
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1150

tgatgcaatc

<210> 2
<211> 1550
<212> DNA
<213> Perkinsus sp.

<220>
<221> gene
<222> (1)..(1550)
<223> The nucleotide sequence of the NTS of rRNA of P. andrewsi, isolat
ed form Macoma balthica.

<400> 2

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cacaaattct caaattggac aacattggac aaaaattcac aacatacatt ggacaacagt     180
ggacaacgaa cccaaacccg acaacattgt ccaggggat aggggggtgaa aaagcagtgc     240
cggcaaagtc gaaagatgtc aagttggaat gcggctcaaa ttcgtcattt gtgtaaatcc     300
gcaattttgc caatgtgcaa ttttgcaaat gtgcaatttt gcaaatgtgc aattttgcca     360
atgtgcaatt ttgcaaatgc gcaattttgc aaatccgcaa ttttgcaaat gtgcaatttt     420
ggaaaatcac caaatgaaaa tcgtccaagt cgaattggag gcgtggtgac atggtcccgg     480
gatcccctgg ttacagtgga caatatccca gcaatattcg ctgtaatttg gagtttcgct     540
gttttggcaa attttgagtc tgaaaaaaaa aattgcaaat gcgcaaaggg ggtgaaggaa     600
aaaaaagcac ccccgaaggt aaaattccct ttaagtccct tgcgcatttg caaaattttc     660
aaaaattgtt gcaaatgcgc ttttgttatt tggccggttc attggtgtca aaagttgcct     720
ggggtggtta cacaatgcac ggaattggtt ggaagttgtg tgattgaaaa ttggtcgtgt     780
cacacaattt tgcgcatttg caaaaattcg caaattggac aaaaaagggt cgcgcacagt     840
caaattgcgc aaatttcact ttgaagtgag tgcgcatttg tggggcagaa atgtggtgac     900
agcatcgttt tttataataa atattctata tttagtatct ttattataat ttgctgtcac     960
caatcaccat tttagaattt ttatttttttt atgtttagt gaccgcggga tttttttgcaa    1020
agtactattg tgatgtttga gttgtttgaa atgggcaatt tagaacatca tcagaaatcg    1080
ctgaatagtg attttgagt ttgactgttt gaagtgtttt gggtattcgg cagctgccaa    1140
atcggtcagc gtcgaatata atagcatttt tgtgtgtata tgatatttag cgatatcatt    1200
ggaatcatgg ggttttgtat tagtacccgc tcattgtggg aatgtcgggt ggttcaatat    1260
cacctgcaaa tttaatacag gatttgcatg atgcagcgac tgaccggggt tggtataata    1320
gctgattatt cggcttatta tgcagaccta tcgtgttagt agttgcgact cttggcgtga    1380
accggaagac cggaacttga attcgactat ttacgtccgt aaacaggaga tttcaagaat    1440
attgcacatt ttgcgtgata taaacgtgat catctgagca cgcttcgact cttggatatc    1500
tgctaatcag ccgtcatctg agagctcgca agcattgcaa ttgatgcaat              1550
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<210>  3
<211>  1413
<212>  DNA
<213>  Perkinsus sp.

<220>
<221>  gene
<222>  (1)..(1413)
<223>  The nucleotide sequence of the NTS of rRNA of Perkinsus mackini,
       isolated from Mercenaria mercenaria.


<400>  3
cgtgcccttt tcacgaattc acagccccgc accccatgta caatgttgcc cacccgaaat      60

gcctgcctgc ccacccgaaa tgcccgaaat gcccgttaga aaaagtatgc gaaaagttct     120

tgtcaatttt gacagtgtgt gaaaaaactg aaaaagtcca ctcaacattg cattatgcaa     180

tttgccactc aacattgtcc agggggatag ggggtgaaaa agtatcgcag tccaactgaa     240

aagatgctaa gttgaaatgc ggcgcaaatt catcacttga gttgcgaaaa tccctaaagt     300

cgaatttggc actcggtgac atgatcggga atttccctgg ttacagtggt caaatcccag     360

caattttggc aaagtttttg agtttcgcac ttttcgcaaa tttcgtgtct gaaaaaaaaa     420

tttcaacttt gcgcaaaggg gtcaaaggga aaaaaagcac cctcaaaagg aaatttccct     480

ttaatcccct ttgaaaaaaa tgcgcaaagt taaatttgcg aaaatttcga ttttctcata     540

tgaccgatta gttggtgcca gatggtagtc gggatggtta cacggtgcac ggaactcgtt     600

ggaagttctg gagttacgaa ttggtcccgt caccacaatt gcgcatttt tgaaattgcg       660

caaatttgcg aaaaaagcag cgcgcaaagt taaattgtgc gaaaattgac tttcaggtcg     720

gtgcgcaaat ttggggtgaa aaagtggtga cagcatcaga attataataa ataatctata     780

atctagttct tttattataa ttagctgtca ccaatcacca tttgagattt tttatttttt     840

tatgttttag tgaccgcggt attttttcca gagtactatc gtgatgtctg agttgtctaa     900

aacggcaatt tcagaacatt accagaaaac actgaatagt ggtttctgag tctgactgtt     960

tgaagtgttt tgggtattcg gcagctgcca attcggtcag ggttgaatat actaacattt    1020

ctgtgtgtat atggtatta gcgatatcat tggaatcatg gggtttgta ttagtacccg       1080

ctcattgtgg gaaagtcggg tggttcaata tcacctgcaa atttaataca ggatttgcat    1140

gatgcagcga ctgaccgggg ttagtataat agctgattat tcggcttatt atgcagacct    1200

atcgtgttag tagttgcgac tcttggcgtg aaccggaaga ccggaacttg atttcgacta    1260

tttacgtccg taacacgtcc gtaaacagga gatttcaaga atattgcaca ttttgtgtga    1320

tataatcgtg atcatctgag cacgcttcga ctcttgaata tttgttaaac aaccgatatt    1380
                                                                      1413
cgggagctcg caagcattgc aattgatgca atc


<210>  4
<211>  21
<212>  DNA
<213>  Perkinsus marinus

<220>
<221>  misc_feature
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<222> (1)..(21)
<223> Forward primer (5'-3').

<400> 4   21
cacttgtatt gtgaagcacc c

<210> 5
<211> 21
<212> DNA
<213> Perkinsus marinus

<220>
<221> misc_feature
<222> (1)..(21)
<223> Reverse primer (5'-3').

<400> 5   21
ttggtgacat ctccaaatga c

<210> 6
<211> 20
<212> DNA
<213> Perkinsus marinus

<220>
<221> misc_feature
<222> (1)..(20)
<223> Forward primer (5'-3').

<400> 6   20
atgctagccc atagaacagt

<210> 7
<211> 20
<212> DNA
<213> Perkinsus marinus

<220>
<221> misc_feature
<222> (1)..(20)
<223> Reverse primer (5'-3').

<400> 7   20
atgctagccc acatcacagc

<210> 8
<211> 22
<212> DNA
<213> Perkinsus atlanticus

<220>
<221> misc_feature
<222> (1)..(22)
<223> Forward primer (5'-3')

<400> 8   22
atgctatggt tggttgcgga cc

<210> 9

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<211>  20
<212>  DNA
<213>  Perkinsus atlanticus

<220>
<221>  misc_feature
<222>  (1)..(20)
<223>  Reverse primer (5'-3')


<400>  9                                                        20
gtagcaagcc gtagaacagc


<210>  10
<211>  24
<212>  DNA
<213>  Perkinsus sp.

<220>
<221>  misc_feature
<222>  (1)..(24)
<223>  NTS7 forward primer (5'-3') for Perkinsus andrewsi


<400>  10                                                       24
aagtcgaatt ggaggcgtgg tgac


<210>  11
<211>  20
<212>  DNA
<213>  Perkinsus sp.

<220>
<221>  misc_feature
<222>  (1)..(20)
<223>  NTS6 reverse primer for Perkinsus andrewsi


<400>  11                                                       20
attgtgtaac caccccaggc


<210>  12
<211>  19
<212>  DNA
<213>  Perkinsus sp.

<220>
<221>  misc_feature
<222>  (1)..(19)
<223>  Generic forward primer (5'-3') PER1 for P. marinus, P. atlanticus
       and P. andrewsi.


<400>  12                                                       19
tagtacccgc tcattgtgg


<210>  13
<211>  17
<212>  DNA
<213>  Perkinsus sp.

<220>
<221>  misc_feature
<222>  (1)..(17)
<223>  Generic reverse PER2 primer (5'-3') for P. marinus, P. atlanticus
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and P. andrewsi

<400> 13   17
tgcaatgctt gcgagct

<210> 14
<211> 22
<212> DNA
<213> Perkinsus sp.

<220>
<221> misc_feature
<222> (1)..(22)
<223> Forward SSU3F primer (5'-3') for P. andrewsi

<400> 14   22
agttggattt ctgccttggg cg

<210> 15
<211> 22
<212> DNA
<213> Perkinsus sp.

<220>
<221> misc_feature
<222> (1)..(22)
<223> Forward SSU4F primer (5'-3') for P. andrewsi

<400> 15   22
accaggtcca gacataggaa gg

<210> 16
<211> 712
<212> DNA
<213> Perkinsus sp.

<220>
<221> misc_feature
<222> (1)..(712)
<223> A nucleotide sequence of the ITS1-5.8. S ITS2 regions of P. andre
      wsi

<400> 16
acaccgattc attctctgag aaaccagcgg tctctgtaaa aggagatggg atctccgctt   60

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ccaattgtac tagtctaaag tatccaatat ccttttggat tttggtattt caaaacgaaa   180

ttccaaactc tcaacgatgg atgcctcggc tcgagaatcg atgaaggacg cagcgaagtg   240

cgataagcac tgcgatttgc agaattccgt gaaccagtag aaatctcaac gcatactgca   300

caaaggggat ttatcctctt tgtacataca tatcagtgtc gctcttcttc ccgatacaaa   360

cattttgttg atttacaatc aacattatgc tttgtatccc gcttggattc ctttattggg   420

atccgctgtg tgcgcttgct gacacaggcg cattaatttg caaggctata atactactgt   480

actgtagccc cttcgcaaga aggactgcgc tagtgagtat ctttggatgc tcgcgaactc   540

gactgtgttg tggttgattc cgtgttcctc gatcacgcga ttcatcgctt caacgcatta   600

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tgtcaaattt gatgaatgca gagagttgtt tatgaattac gcgatcgctt tggtctcaga    660

atcgttacta tagcacgctt gtcggtttgc aacctggcaa tatgtcatca tt            712
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<210>   17
<211>   1808
<212>   DNA
<213>   Perkinsus sp.

<220>
<221>   misc_feature
<222>   (1)..(1808)
<223>   A nucleotide sequence of the SSU rRNA of P. andrewsi
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<400>   17
acctggttga tcctgccagt agtcatatgc ttgtctcaaa gattaagcca tgcatgtcta    60

agtataagct ttaaacggcg aaactgcgaa tggctcatta aaacagttat agtttatttg    120

gtgatcgatt actatttgga taaccgtagt aattctagag ctaatacatg cgtcaaggcc    180

cgacttcgga agggctgcgt ttattagata cagaaccaac ctagctccgc ctagtccttg    240

ttggtgattc ataataaccc ggcgaatcgc acggcttgtc cggcgatgga ccattcaagt    300

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gggaattagg gttcgattcc ggagagggag cctgagaaac gactaccaca tctaaggaag    420

gcaacaggcg cgcaaattac ccaatcctga tacagggagg tagtgacaag aaataacaat    480

acagggcaat tctgtcttgt aattggaatg agtagatttt aaatctcttt acgagtatca    540

attggagggc aagtctggtg ccagcagccg cggtaattcc agctccaata gcgtatatta    600

aagttgttgc ggttaaaaag ctcgtagttg gatttctgcc ttgggcgacc ggtccacctt    660

tcctacgggt taggttggta ccaggtttga ccttggcttt ttcttgggat tcgtgctcac    720

gcacttaact gtgcgctgac cgtgttccaa gacttttact ttgaggaaat tagagtgttt    780

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ttttgttggt ttctaggact gaagtaatga ttaataggga cagtcggggg cattcgtatt    900

taactgtcag aggtgaaatt cttggatttg ttaaagacga actactgcga aagcatttgc    960

caaggatgtt ttcattgatc aagaacgaaa gttaggggat cgaagacgat cagataccgt    1020

cctagtctta accataaact atgccgacta gggattggga gtcgttaatt ttagacgctc    1080

tcagcacctc gtgagaaatc aaagtctttg ggttccgggg ggagtatggt cgcaaggctg    1140

aaacttaaag gaattgacgg aagggcacca ccaggagtgg agcctgcggc ttaatttgat    1200

tcaacacggg aaaactcacc aggtccagac ataggaagga ttgacagatt gatagctctt    1260

tcttgattct atgggtggtg gtgcatggcc gttcttagtt ggtggagtga tttgtctggt    1320

taattccgtt aacgaacgag accttaacct gctaaatagt tgcgtgaaat cttgtatttc    1380

accgctactt cttagaggga ctttgtgtgt ttaacacaag gaagcttgag gcaataacag    1440

gtctgtgatg cccttagatg ttctgggctg cacgcgcgct acactgacac gatcaacgag    1500

tatttccttg cccggtaggg ttagggtaat cttttgaaat cgtgtcgtgc tagggataga    1560
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cgattgcaat tattcgtctt caacgaggaa ttcctagtaa atgcaagtca tcagcttgcg    1620

ttgattacgt ccctgccctt tgtacacacc gcccgtcgct cctaccgatt gagtgatccg    1680

gtgagctgtc cggactgcga ttagttcagt ttctgttctt ttcgcgggaa gttctgcaaa    1740

ccttatcact tagaggaagg agaagtcgta acaaggtttc cgtaggtgaa cctgcagaag    1800

                                                                     1808
gatcattc
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```
<210>  18
<211>  1147
<212>  DNA
<213>  Perkinsus atlanticus

<220>
<221>  misc_feature
<222>  (1)..(1147)
<223>  A nucleotide sequence of the NTS of rRNA of P. atlanticus
```

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<400>  18
tctttttaaa tcgcactcat ggcttgtgca tgcgtgcaag cccccggagc cccctggaca    60

atgttatccc agctcaacaa cgagcaacag tgctatggca agtagtccac tagagagcca    120

agtcgacaat ctctacaaca ttgtccaagg gggaaagggg ggcgcgcgaa gttgacctgc    180

agcagaggga aaagatgctg agttttgctg caccccaact ttgcgcactt ggcgaagttg    240

acttgcaggc gagggtaaaa gatgctatgg ttggttgcgg accaagttcg ccgtgtgggt    300

catcattatc gaggtctgtg gtgacgatgg actagttttt agggattttc cggaggtgtc    360

accacggacc ccccaacttt gcgcacgggg ggtactcaat tttaagtgaa atttaagtaa    420

aatttactta aaattcacgt ttttgggtgc gcaaagttga ggtggtgact ggtgacacga    480

aaattttaaa aaagagagat attaaaaaaa tatttatatt ttctgtgtca ccgtgtcacc    540

agtcaccaca gggcgtaatt ttccgggaaa ttttcagatt ttccggaaaa attgcatttt    600

ggggtaaata gtgtccgtca gaattttgcc aaaggactgt cgtgatgtcc gagttcccaa    660

attgagggtt tttggacatc gctctgaaat cgctaacggc gtttcagatt ccgacttttt    720

cgacatattc tgggtatttg atagctgcca aatcggtcag cgtcgaatat tccaatattt    780

cgaaggatat atgatatcgc gagatatcat tggatttcat ggggtttgt attagtaccc    840

gctcatcgtg ggaaagtcgg gtgaatttat tcaacccgca aatctaatac aagatttgca    900

tgatgcagcg actgaccggg gtgagtgtag cagctgttct acggcttgct acgcagacct    960

atcgtgttag tagttgcgac tcttggcgtg aaccggaaga ccggacctcg ctttcgacta    1020

ttcattccga tgaatatgag attgcaaggg tatcgcttcg tgcgatattt agtgatcatc    1080

agagcacgct acgacttcag tatatcctcg gatacacaga agctcgcaag cattgcatga    1140

                                                                     1147
tgcaatc
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```
<210>  19
<211>  19
<212>  DNA
<213>  Perkinsus sp.
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```
<220>
<221>  misc_feature
<222>  (1)..(19)
<223>  Generic forward PER1 primer (5'-3') for P. marinus
```

B1

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<400>  19
tagtacccgc tcatcgtgg                                                    19
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